



Express Mail No. EV 370 630 372 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: See Attached Schedule A.

Serial No.: See Attached Schedule A

For: See Attached Schedule A

Filed: See Attached Schedule A

Attorney Docket No: See Attached Schedule A

COMMUNICATION

RECEIVED

MAY 13 2004

Technology Center 2100

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants enclose herewith a Revocation and Power of Attorney by Assignee executed on May 5, 2004 by Carole Druhan-Larsen, Associate General Counsel, Intellectual Property, for Electric Power Research Institute, Inc. Also enclosed is Authorization to Execute Documents for Securing Patent Rights on Behalf of the Electric Power Research Institute, Inc. for Ms. Druhan-Larsen.

Applicants believe that no fee is required with the submission of the enclosed document. However, if it is found that a fee is necessary, please charge the required fee to Pennie & Edmonds LLP Deposit Account No. 16-1150. A copy of this sheet is enclosed for accounting purposes

Date: May 6, 2004

Respectfully submitted,

David R. Owens

(Reg. No.)

**MORGAN LEWIS & BOCKIUS** LLP

3300 Hillview Avenue

Palo Alto, California 94304

(650) 493-4935

40,756



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: See Attached Schedule A

Serial No.: See Attached Schedule A

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Attorney Docket No: See Attached  
Schedule A

REVOCATION AND POWER OF ATTORNEY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RECEIVED**

MAY 13 2004

Technology Center 2100

S I R:

Electric Power Research Institute, Inc., owner of the entire right, title and interest in, to and under the inventions listed in the attached Schedule A hereby revokes all previous powers of attorney and appoints Morgan, Lewis & Bockius LLP, Customer No. 24341, and each of them, its attorneys, to prosecute these matters and to transact all business in the Patent and Trademark Office connected therewith, said appointment to be to the exclusion of the inventors and their attorney(s) in accordance with the provisions of 37 C.F.R. 3.71, provided that, if any one of these attorneys ceases being affiliated with the law firm of Morgan, Lewis & Bockius LLP as partner, counsel or employee, then the appointment of that attorney and all powers derived therefrom shall terminate on the date such attorney ceases being so affiliated.

Please direct all future correspondence to the address associated with Customer No. 24341 and direct all telephone calls to Morgan, Lewis & Bockius LLP at (650) 493-4935.

Date: May 5, 2004

Assignee: Electric Power Research Institute, Inc.

Signature: 

Typed Name: Carole Druhan-Larsen

Position/Title: Associate General Counsel,  
Intellectual Property

Address: 3412 Hillview Avenue  
Palo Alto, CA 94304

## **SCHEDULE A**

<b>Serial No./Patent No:</b>	<b>Filing Date/Issue Date:</b>	<b>Title:</b>	<b>1<sup>st</sup> Named Inventor:</b>	<b>Docket No:</b>
07/027,810 4,827,953	March 18, 1997 May 09, 1989	Flexible Lance For Steam Generator Secondary Side Sludge Removal	Lee, Robert A. S.	60825-0008
07/303,268 5,065,703	January 27, 1989 November 19, 1991	Flexible Lance For Steam Generator Secondary Side Sludge Removal	Lee, Robert A. S.	60825-0009
07/314,091 5,036,871	February 22, 1989 August 06, 1991	Flexible Lance and Drive System	Ruggieri, Steven K.	60825-0018
07/738,469 5,341,406	July 31, 1991 August 23, 1994	Sliding Lance Guide Flexible Lance System	Jens, Stephen C.	60825-0021
07/661,825 5,286,154	February 27, 1991 February 15, 1994	In Bundle Foreign Object Search and Retrieval Apparatus	Jens, Stephen C.	60825-0022
08/124,572 5,379,589	September 20, 1993 January 10, 1995	Power Plant Utilizing Compressed Air Energy Storage and Saturation	Cohn, Arthur	60825-0027
08/369,506 5,491,969	January 06, 1995 February 20, 1996	Power Plant Utilizing Compressed Air Energy Storage and Saturation	Cohn, Arthur	60825-0028
07/743,504 5,251,268	August 09, 1991 October 05, 1993	Integrated Method and Apparatus For Character and Symbol Recognition	Colley, Robert W.	60825-0029
07/813,112 5,281,826	December 23, 1991 January 25, 1994	Video Fluorescence Monitor For Determination of Spill Outlines	Ivancic, William A.	60825-0031

07/788,330 5,142,230	November 05, 1991 August 25, 1992	Scanning Device and Method For Automated Eddy Current Inspection of Electrical Generator Retaining Rings	Nottingham, Lawrence D.	60825-0034
08/200,413 5,399,194	February 23, 1994 March 21, 1995	Method of Fly Ash Beneficiation and Apparatus For Same	Cochran, Joe W.	60825-0043
08/436,407 6,132,525	March 07, 1997 October 17, 2000	Manufacturing of Materials and Workpieces For Components in Nuclear Plant Applications	Alter, Dietrich	60825-0048
09/032,246 5,949,838	February 27, 1998 September 07, 1999	Manufacture of Materials and Workpieces For Components in Nuclear Plant Applications	Alter, Dietrich	60825-0049
08/018,644 5,430,270	February 17, 1993 July 04, 1995	Method and Apparatus For Repairing Damaged Tubes	Findlan, Shane J.	60825-0054
08/440,551 5,656,185	May 12, 1995 August 12, 1997	Method and Apparatus For Repairing Damaged Tubes by Interior Clad Welding	Findlan, Shane J.	60825-0055
08/627,483 5,734,257	April 04, 1996 March 31, 1998	Transmission Line Power Controller With a Continuously Controllable Voltage Source Responsive to a Real Power Demand and a Reactive Power Demand	Schauder, Colin D.	60825-0068
08/410,714 5,653,897	March 27, 1995 August 05, 1997	Rotating Fiber Optic Coupler For High Power Laser Welding Applications	Findlan, Shane J.	60825-0077

08/810,691 5,977,513	February 28, 1997 November 02, 1999	Apparatus and Method For Centering a Laser Welding Probe Within a Tube Using Gas Pressure	Findlan, Shane J.	60825-0078
08/961,760 5,983,994	October 30, 1997 November 16, 1999	Method and Apparatus For On- Line Cleaning of and Improvement of Heat Transfer Exchanger Tube	Tsou, John L.	60825-0099
08/957,042 6,211,482	October 24, 1997 April 03, 2001	Apparatus and Method For Precision Excavation and Welding of Thick-Walled Components	Findlan, Shane J.	60825-0111
09/321,703 6,145,194	May 28, 1999 November 14, 2000	Method For Repairing a Shrink- Fitted Turbine Disc	Munson, Ronald E.	60825-0120
08/921,936 6,247,231	August 27, 1997 June 19, 2001	Method For Repairing Heat Exchanger Tubing Through Partial Tube Replacement	Findlan, Shane J.	60825-0124
09/151,411 5,998,003	September 10, 1998 December 07, 1999	Multilayer Nanostructured Ceramic Thermal Barrier Coatings	Courtright, Edward L.	60825-0144
08/943,499 5,899,256	October 03, 1997 May 04, 1999	Metal Fly Ash Composites and Low Pressure Infiltration Methods For Making The Same	Rohatgi, Pradeep K.	60825-0145
09/100,188 6,085,673	June 18, 1998 July 11, 2000	Method For Reducing Waterwall Corrosion in Low NO.sub.x Boilers	Bakker, Wate T.	60825-0156
09/009,571 5,948,143	January 20, 1998 September 07, 1999	Apparatus and Method For The Removal of Contaminants in Gases	Sjostrom, Sharon	60825-0162

09/218,802 6,136,072	December 21, 1998 October 24, 2000	Apparatus and Method For The Removal of Contaminants in Gases	Sjostrom, Sharon	60825-0163
09/223,590 6,164,221	December 30, 1998 December 26, 2000	Method For Reducing Unburned Carbon in Low NOx Boilers	Facchiano, Anthony	60825-0179
09/371,256 6,267,940	August 10, 1999 July 31, 2001	Apparatus and Method For Reducing NOx With an Activated Catalyst	Chang, Ramsay	60825-0213
09/497,470 6,278,357	February 03, 2000 August 21, 2001	Apparatus and Method For Implementing Digital Communications on a Power Line	Croushore, Timothy M.	60825-0215
08/929,618 5,966,683	September 15, 1997 October 12, 1999	Apparatus and Method For Analyzing Chemical System Data	Millett, Peter J.	60825-0217
09/215,602 6,089,170	December 17, 1998 July 18, 2000	Apparatus and Method For Low- NOx Gas Combustion	Conti, Anthony V.	60825-0223
08/588,194 5,724,254	January 18, 1996 March 03, 1998	Apparatus and Method For Analyzing Power Plant Water Chemistry	Millett, Peter J.	60825-0224
09/487,931 6,364,971	January 20, 2000 April 02, 2002	Apparatus and Method of Repairing Turbine Blades	Peterson, Jr., Artie G.	60825-0230
09/545,354 6,396,892	April 07, 2000 May 28, 2002	Apparatus and Method For Ultrasonically Cleaning Irradiated Nuclear Fuel Assemblies	Frattoni, Paul	60825-0232

09/384,732 6,217,634	August 27, 1999 April 17, 2001	Apparatus and Method For Monitoring and Purifying Dielectric Fluids	Dominelli, Nicola	60825-0233
09/979,255 6,672,825	May 08, 2002, January 06, 2004	Method and Apparatus For Increasing Power Generated by a Steam Turbine by Controlling the Electric Charge in Steam Exiting the Steam Turbine	Tarelin, Anatoly O.	60825-0235
09/628,078 6,514,315	July 28, 2000 February 04, 2003	Apparatus and Method For Collecting Flue Gas Particulate With High Permeability Filter Bags	Chang, Ramsay	60825-0238
09/387,230 6,591,166	August 31, 1999 July 08, 2003	Apparatus and Method For Analyzing Chemical System Data	Millett, Peter J.	60825-0240
09/784,407 6,468,489	February 13, 2001 October 22, 2002	Apparatus and Method For Decreasing Contaminants Present in a Gas Stream	Chang, Ramsay	60825-0247
09/797,262 6,488,740	February 28, 2001 December 03, 2002	Apparatus and Method For Decreasing Contaminants Present in a Gas Stream	Patel, Dan V.	60825-0255
09/797,266 6,396,672	February 28, 2001 May 28, 2002	Apparatus and Method For Utilizing a Snubber Capacitor to Power a Silicon- Controlled Rectifier Gate Trigger Circuit	Deam, David R.	60825-0257
09/797,265 6,417,719	February 28, 2001 July 09, 2002	Apparatus and Method For Isolating a Trigger Circuit of a Silicon-Controlled Rectifier	Deam, David R.	60825-0259

09/908,659 6,493,420	July 18, 2001 December 10, 2002	Apparatus and Method For In-Situ Measurement of Residual Surface Stresses	Ruud, Clayton O.	60825-0262
10/052,421 6,712,878	January 17, 2002 March 30, 2004	Method and Apparatus For Renewable Mercury Sorption	Chang, Ramsay	60825-0271
10/115,204 6,673,169	April 01, 2002 January 06, 2004	Method and Apparatus For Repairing Superalloy Components	Peterson, Jr., Artie G.	60825-0309





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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants enclose herewith a Revocation and Power of Attorney by Assignee executed on May 5, 2004 by Carole Druhan-Larsen, Associate General Counsel, Intellectual Property, for Electric Power Research Institute, Inc. Also enclosed is Authorization to Execute Documents for Securing Patent Rights on Behalf of the Electric Power Research Institute, Inc. for Ms. Druhan-Larsen.

Applicants believe that no fee is required with the submission of the enclosed document. However, if it is found that a fee is necessary, please charge the required fee to Pennie & Edmonds LLP Deposit Account No. 16-1150. A copy of this sheet is enclosed for accounting purposes

Date: May 6, 2004

Respectfully submitted,

David R. Owens

(Reg. No.)

40,756

**MORGAN LEWIS & BOCKIUS** LLP

3300 Hillview Avenue  
Palo Alto, California 94304  
(650) 493-4935



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: See Attached Schedule A

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Schedule A

REVOCATION AND POWER OF ATTORNEY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

S I R:

Electric Power Research Institute, Inc., owner of the entire right, title and interest in, to and under the inventions listed in the attached Schedule A hereby revokes all previous powers of attorney and appoints Morgan, Lewis & Bockius LLP, Customer No. 24341, and each of them, its attorneys, to prosecute these matters and to transact all business in the Patent and Trademark Office connected therewith, said appointment to be to the exclusion of the inventors and their attorney(s) in accordance with the provisions of 37 C.F.R. 3.71, provided that, if any one of these attorneys ceases being affiliated with the law firm of Morgan, Lewis & Bockius LLP as partner, counsel or employee, then the appointment of that attorney and all powers derived therefrom shall terminate on the date such attorney ceases being so affiliated.

Please direct all future correspondence to the address associated with Customer No. 24341 and direct all telephone calls to Morgan, Lewis & Bockius LLP at (650) 493-4935.

Date: May 5, 2004

Assignee: Electric Power Research Institute, Inc.

Signature: 

Typed Name: Carole Druhan-Larsen

Position/Title: Associate General Counsel,  
Intellectual Property

Address: 3412 Hillview Avenue,  
Palo Alto, CA 94304

# **SCHEDULE A**

<b>Serial No.:</b>	<b>Filing Date:</b>	<b>Title:</b>	<b>1<sup>st</sup> Named Inventor</b>	<b>Docket No.:</b>
09/632,510	August 04, 2000	Apparatus and Method Analyzing Anisotropic Particle Scattering in Three-Dimensional Geometries	Watkins, Kenneth E.	60825-0122
09/920,679	August 01, 2001	Apparatus and Method For Measuring Current Flow in an Animal or Human Body	Kavet, Robert	60825-0243
09/923,256	August 02, 2001	Apparatus and Method for Monitoring a Cable	Stewart, Andrew H.	60825-0245
09/797,264	February 28, 2001	Low Power Gate Trigger Circuit For Controlling a Silicon-Controller Rectifier Circuit	Deam, David R.	60825-0258
10/004,000	November 14, 2001	Application of Symbol Sequence Analysis and Temporal Irreversibility to Monitoring and Controlling Boiler Flames	Daw, Charles Stuart	60825-0265
10/124,000	April 16, 2002	Method and Apparatus For Removing Vapor Phase Contaminants From a Flue Gas Stream	Chang, Ramsay	60825-0288

10/241,108	September 11, 2002	Method and Apparatus For Detecting Wear in Components of High Voltage Electrical Equipment	Dominelli, Nicola	60825-0291
10/251,439	September 20, 2002	Method and System For a Thermodynamic Process For Producing Usable Energy	Nayar, Ramesh C.	60825-0305
10/014,619	December 10, 2001	Apparatus And Method For Ultrasonically Cleaning Irradiated Nuclear Fuel Assemblies	Frattini, Paul L.	60825-0306
10/431,553	May 06, 2003	Method and Apparatus For Removing Vapor Phase Contaminants From a Flue Gas Stream	Chang, Ramsay	60825-0320
10/629,891	July 29, 2003	Method and Apparatus for Trading Energy Commitments	Gilbert, Joel	60825-0321
10/438,156	May 13, 2003	Application of Symbol Sequence Analysis And Temporal Irreversibility to Monitoring and Controlling Boiler Flames	Daw, Charles Stewart	60825-0323
10/615,165	July 07, 2003	Apparatus and Method For Measuring Current Flow in an Animal Or Human Body	Kavet, Robert	60825-0327

10/704,240	November 07, 2003	Method and Apparatus For Repairing Superalloy Components	Peterson, Jr., Artie G.	60825-0340
09/728,723	November 30, 2000	Capillary Electrophoresis Probes and Method	Yengoyan, Leon S.	60825-5003



Express Mail No.: EV 370 630 372 US

**PATENT COOPERATION TREATY**

International  
Application of: See Attached Schedule A

For: See Attached Schedule A

International  
Application No.: See Attached Schedule A

Docket No: See Attached Schedule A

International  
Filing Date: See Attached Schedule A

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MAY 13 2004

**COMMUNICATION**

Technology Center 2100

Commissioner for Patents  
Mail Stop PCT  
P.O. Box 1450  
Alexandria, VA 22313-1450

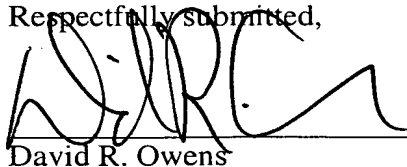
Sir:

Applicants enclose herewith a Revocation and Appointment of Agent executed by Carole Druhan-Larsen, Associate General Counsel, Intellectual Property on May 5, 2004 on behalf of Electric Power Research Institute, Inc.

Applicants believe that no fee is required with the submission of the enclosed document. However, if it is found that a fee is necessary, please charge the required fee to Morgan, Lewis & Bockius, LLP Deposit Account No. 50-0310. A copy of this sheet is enclosed for this purpose.

Respectfully submitted,

Date: May 6, 2004

  
David R. Owens

40,756

(Reg. No.)

**MORGAN, LEWIS & BOCKIUS** LLP  
3300 Hillview Avenue  
Palo Alto, California 94304  
(650) 493-4935

## PATENT COOPERATION TREATY

International Application of:  
See Attached Schedule A

Int. Application No.:  
See Attached Schedule A

Filed:  
See Attached Schedule A

Attorney Docket No.:  
See Attached Schedule A

## REVOCATION AND APPOINTMENT OF AGENT

Commissioner for Patents  
P.O. Box 1450  
Mail Stop PCT  
Alexandria, VA 22313-1450

Sir:

Electric Power Research Institute, Inc., applicant of the applications listed on the attached Schedule hereby revokes all previous powers of attorney and appoints:

BALANCIA, Victor;  
BIRD, Donald J.;  
DOYLE, Kathryn;  
GAYBRICK, Robert J.;  
GOLUB, Daniel H.;  
GOODWYN, IV, R. Tyler;  
GRAY, IV, Andrew J.;  
KOHLE, Thomas D.;  
LAUB, David W.;  
LYONS, Michael L.;  
MCCUTCHEON, Nathan W.;  
MORRIS, Francis E.;  
OWENS, David R.;  
SMITH, John G.;  
WILLIAMS, Gary S.;  
WU, Andrew J.;  
ZELE, John D.;  
  
KOKULIS, Paul N.;  
  
BOSWELL, Mary Jane;  
HAYDEN, Christopher G.;  
TUSCAN, Michael S.;  
VEITENHEIMER, III, Erich E.;  
WEIMAR, Elizabeth C.;  
  
ALVAREZ, Raquel M.;  
ANCHELL, Scott J.;  
ANTONELLI, Arthur;  
BALTAZAR, David J.;

BATTISTA, William G.;  
BASSON, Kent E.;  
BEARDELL, Louis W.;  
BREGMAN, Dion M.;  
CARLINEO, Daniel S.;  
DAVIS, Kenneth J.;  
DIETZE, Paul E.;  
FANELLI, Dean L.;  
FOSTER, William S.;  
FOURNIER, Paul A.;  
GLIDDEN, Shawn;  
GOODELL, Robert J.;  
GOTTLIEB, Kirk A.;  
HALLIDAY, Christopher I.;  
HAO, Victoria;  
HARDY, David;  
HELLMOLDT, Dieter H.;  
HOLLINGSHEAD, Robert J.;  
HOPKINS, Martha J.;  
JAMES, Richard W.;  
JESSUM, Kim R.;  
KOENIGBAUER, Fabian M.;  
KOSSON, Rosanne;  
LEE, Sunwoo;  
LOWEN, Gregory T.;  
McDONALD, James S.;  
MAURER, Eric J.;  
MCLEOD, Bonnie W.;  
MONIN, Jr. Donald L.;  
NEAL, Arlene P.;

NELSON, Thomas E.;  
PARK, Collin W.;  
PHILLIPS, Ralph;  
REED, James L.;  
ROBINSON, Angela;  
SCHWARZ, Steven J.;  
SISTARE, Peter J.;  
SMYTH, Robert J.;  
SOSSONG, Thomas;

SULLIVAN, Mark J.;  
SYA, Nancy I.;  
TA, Khoi;  
TAYLOR, Todd P.;  
TENG, Sally P.;  
WEISBERG, Alison;  
YOSHIMURA, Masao;  
ZHENG, Jamie;  
ZISKA, Suzanne E.

and each of them, whose address is MORGAN, LEWIS & BOCKIUS LLP, 3300 Hillview Avenue, Palo Alto, CA 94304 USA; (Telephone (650) 493-4935).

☒ as agents

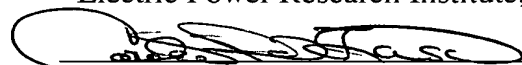
☐ as common representative

to act on their behalf before the competent International Authorities in connection with the referenced international application, and to receive correspondence and payments on their behalf, provided that, if any one of these attorneys ceases being affiliated with the law firm of Morgan, Lewis & Bockius LLP as partner, counsel, or employee, then the appointment of that attorney and all powers derived therefrom shall terminate on the date such attorney ceases being so affiliated.

Date:

May 5, 2004

Signature:

Electric Power Research Institute, Inc.  


Typed Name:

Carole Druhan-Larsen

Position/Title:

Associate General Counsel,  
Intellectual Property

Address:

3412 Hillview Avenue,  
Palo Alto, CA 94304



## **SCHEDULE A**

<b>Serial No.:</b>	<b>Filing Date:</b>	<b>Title:</b>	<b>Docket No.:</b>
PCT/US02/36410	November 13, 2002	Application of Symbol Sequence Analysis and Temporal Irreversibility to Monitoring and Controlling Boiler Flames	60825-0265-WO
PCT/US02/29870	September 20, 2002	Method and System for a Thermodynamic Process for Producing Usable Energy	60825-0305-WO
PCT/US03/15365	May 13, 2003	Application of Symbol Sequence Analysis and Temporal Irreversibility to Monitoring and Controlling Boiler Flames	60825-0323-WO